State of Utah

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Department of
Environmental Quality

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Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-IN124330004-21

September 2, 2021

Lee Ware
Kilgore Companies, LLC dba Altaview Concrete
7057 West 2100 South
Salt Lake City, UT 84128
lee.ware@kilgorecompanies.com

Dear Mr. Ware:

Re: Intent to Approve:
Modification to AO DAQE-AN0124330003-10 to Add Truck Mix Operations
Project Number: N124330004

The attached document is the Intent to Approve (ITA) for the above-referenced project. The ITA is subject to public review. Any comments received shall be considered before an Approval Order (AO) is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an AO. An invoice will follow upon issuance of the final AO.

Future correspondence on this ITA should include the engineer's name, **Mr. Enqiang He,** as well as the DAQE number as shown on the upper right-hand corner of this letter. Mr. Enqiang He, can be reached at (801) 556-1580 or ehe@utah.gov, if you have any questions.

Sincerely,

Alan D. Humpherys, Manager
New Source Review Section

ADH:EH:sb

cc: Salt Lake Valley Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

INTENT TO APPROVE
DAQE-IN124330004-21
Modification to AO DAQE-AN0124330003-10 to Add Truck Mix Operations

Prepared By
Mr. Enqiang He, Engineer
(801) 556-1580
ehe@utah.gov

Issued to
Kilgore Companies, LLC dba Altaview Concrete - West Jordan Concrete Batch Plant

Issued On
September 2, 2021

New Source Review Section Manager
Alan D. Humpherys

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name
Kilgore Companies, LLC dba Altaview Concrete

Source Name
Kilgore Companies, LLC dba Altaview Concrete - West Jordan Concrete Batch Plant

Mailing Address
7057 West 2100 South
Salt Lake City, UT 84128

Physical Address
5800 West 9580 South
West Jordan, UT

Source Contact
Name Lee Ware
Phone (801) 250-0132 Ext 1412
Email lee.ware@kilgorecompanies.com

UTM Coordinates
412,900 m Easting
4,492,100 m Northing
Datum NAD83
UTM Zone 12

SIC code 3273 (Ready-Mixed Concrete)

SOURCE INFORMATION

General Description
Kilgore Companies, LLC dba Altaview Concrete (Kilgore) operates a drum-mix concrete plant in West Jordan in Salt Lake County. Raw materials including cement, cement supplement, sand and aggregate are brought onsite by haul trucks and stored in partially enclosed storages. The materials are mixed in the drum-mix concrete plant, then concrete mix is loaded into trucks to be transported off site. Annual concrete production is limited to 360,000 cubic yards.

NSR Classification
Minor Modification at Minor Source

Source Classification
Located in Northern Wasatch Front O3 NAA, Salt Lake City UT $PM_{2.5}$ NAA, Salt Lake County SO_2 NAA
Salt Lake County
Airs Source Size: B

Applicable Federal Standards

Project Description
Kilgore has proposed to add truck mix operations to the West Jordan plant. The operations include two (2) silos with baghouses, one (1) weigh hopper with a baghouse, two (2) bins, one (1) covered auger, and conveyors. The truck mix operations will share the production with the drum mix concrete plant. Therefore, Kilgore does not propose to increase production. Emissions are updated.

SUMMARY OF EMISSIONS

The emissions listed below are an estimate of the total potential emissions from the source. Some rounding of emissions is possible.

Criteria Pollutant	Change (TPY)	Total (TPY)
CO_2 Equivalent		3592.00
Carbon Monoxide	0	2.02
Nitrogen Oxides	0	4.45
Particulate Matter - PM_{10}	1.12	5.84
Particulate Matter - $PM_{2.5}$		1.02
Sulfur Dioxide	0	0.32
Volatile Organic Compounds	0	0.50

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Generic HAPs (CAS #GHAPS)	0	140
	Change (TPY)	**Total (TPY)**
Total HAPs	0	0.07

PUBLIC NOTICE STATEMENT

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Director.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in the Salt Lake Tribune and Deseret News on September 5, 2021. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing within 15 days of publication, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

SECTION I: GENERAL PROVISIONS

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

I.1	All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
I.2	The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
I.3	Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]

I.4	All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Director or Director's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401-8]
I.5	At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
I.6	The owner/operator shall comply with UAC R307-107. General Requirements: Breakdowns. [R307-107]
I.7	The owner/operator shall comply with UAC R307-150 Series. Emission Inventories. [R307-150]
I.8	The owner/operator shall submit documentation of the status of construction or modification to the Director within 18 months from the date of this AO. This AO may become invalid if construction is not commenced within 18 months from the date of this AO or if construction is discontinued for 18 months or more. To ensure proper credit when notifying the Director, send the documentation to the Director, attn.: NSR Section. [R307-401-18]

SECTION II: PERMITTED EQUIPMENT

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

II.A THE APPROVED EQUIPMENT

II.A.1	**West Jordan Concrete Batch Plant**
II.A.2	**One (1) Drum Mix Concrete Plant** Capacity: 250 cubic yard/hr Control Device: Baghouse
II.A.3	**One (1) Drum Mix Concrete Plant Baghouse** Bag Diameter: 5.93 in Bag Length: 10 ft Air to Cloth Ratio: 5.9:1 Number of Bags: 72
II.A.4	**One (1) Cement and Fly Ash Storage Silo** Design capacity: 376 tons (three (3) storage compartments with one (1) dust collector)

II.A.5	**One (1) Cement and Fly Ash Baghouse** Bag Diameter: 5.93 in Bag Length: 5 ft Air to Cloth Ratio: 6:1 Number of Bags: 28
II.A.6	**One (1) Natural Gas Water Heater** Design Capacity: 7 MMBtu/hr Burner: Maxon EB-7 Low-NO_x Burner
II.A.7	**Natural Gas Space Heaters and Radiant Heaters**
II.A.8	**Associated Equipment** Includes: conveyors, front-end loaders, concrete trucks, haul trucks, and water trucks
II.A.9	**Two (2) Diesel Storage Tanks** Capacity: 10,000 gallons and 2,000 gallons
II.A.10	**One (1) Truck Mix Operation** Two (2) silos: 60 tons each Three (3) baghouses to control cement silo, the cement supplement silo, and the weigh hopper Two (2) loading bins: 40,000 lbs each One (1) covered auger: 75 cubic yard/hr Conveyors

SECTION II: SPECIAL PROVISIONS

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	**The West Jordan Concrete Batch Plants shall be subject to the following:**
II.B.1.a	The owner/operator shall operate the Drum Mix Concrete Batch Plant Baghouse listed in II.A.3 to control process streams from the Drum Mix Concrete Plant. All exhaust air from the concrete plant shall be routed through the baghouse before being vented to the atmosphere. [R307-401-8]
II.B.1.b	The owner/operator shall operate the Cement and Fly ash Silo Baghouse listed in II.A.4 to control process streams from the Cement and Fly ash storage silo in the Drum Mix Concrete Plant. All exhaust air from the Cement and Fly ash Silo shall be routed through the baghouse before being vented to the atmosphere. [R307-401-8]
II.B.1.c	The owner/operator shall operate a manometer or magnehelic pressure gauge to measure the differential pressure across each of the baghouses. Static pressure differential across the baghouses shall be between 2.5 to 6.5 inches of water column. [R307-401-8]
II.B.1.c.1	The pressure gauge shall be located such that an inspector/operator can safely read the indicator at any time. The pressure gauge shall measure the pressure drop in 1-inch water column increment or less. The pressure gauge shall be calibrated according to the manufacturer's instructions at least once every 12 months. [R307-401-8]

II.B.1.d	The owner/operator shall install and operate baghouses to control process streams from the cement silo, the cement supplement silo, and the weigh hopper in the truck mix operations. All exhaust air from each of the processes shall be routed through the designated baghouse before being vented to the atmosphere. [R307-401-8]
II.B.1.e	The owner/operator shall not exceed the following production limits: A. 338,000 cubic yards of drum mix concrete per rolling 12-month period B. 22,000 cubic yards of truck mix concrete per rolling 12-month period [R307-401-8]
II.B.1.e.1	To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the 20th day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by operator records. The records of production shall be kept on a daily basis. [R307-401-8]
II.B.1.f	The owner/operator shall not allow visible emissions from the following emission points to exceed the following values: A. All conveyor transfer points - 7% opacity B. All conveyor drop points - 20% opacity C. All natural gas combustion - 10% opacity D. All concrete batch plants - 7% opacity E. All other points - 20% opacity. [R307-312-4, R307-401-8]
II.B.1.f.1	Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-305-3]
II.B.1.g	The owner/operator shall use natural gas as primary fuel and propane as backup fuel for the water heater and space heaters. [R307-401-8]
II.B.2	**All Haul Roads and Fugitive Dust Sources shall be subject to the following:**
II.B.2.a	The owner/operator shall submit and comply with a FDCP consistent with R307-309-6. [R307-309-6, R307-401-8]
II.B.2.b	The owner/operator shall not allow visible emissions from paved haul roads and fugitive dust sources to exceed 20% opacity on site and 10% opacity at the property boundary. [R307-309-5]
II.B.2.b.1	Visible emission determinations for fugitive dust from haul roads and operational areas shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Visible emissions shall be measured at the densest point of the plume but at a point not less than one-half vehicle length behind the vehicle and not less than one-half the height of the vehicle. [R307-309-5]
II.B.2.c	The owner/operator shall periodically water spray and sweep the paved haul roads on site to meet the opacity limits in this AO. [R307-401-8]

II.B.2.c.1	The owner/operator shall maintain records of cleaning the paved roads for all periods when the plant is in operation. The records shall include: A. Date of cleaning; B. Number of sweep/water sprays made; C. Rainfall received, if any, and approximate amount D. Time of day sweeping/spray were made. [R307-401-8]
II.B.2.d	The owner/operator shall apply water to all storage piles on site as needed to control fugitive emissions. Sprays shall operate as required to ensure the opacity limits listed in this AO are not exceeded. The owner/operator may stop spraying the storage piles with water if the temperature is below freezing. [R307-401-8]
II.B.2.d.1	Records of water treatment shall be kept for all periods the plant is in operation. The records shall include the following items: A. Date and time treatments were made B. Number of Treatments made and quantity of water applied C. Rainfall amount received, if any D. Records of temperature, if the temperature is below freezing [R307-401-8]

PERMIT HISTORY

This Approval Order shall supersede (if a modification) or will be based on the following documents:

Supersedes	DAQE-AN0124330003-10 dated July 27, 2010
Incorporates	NOI dated January 7, 2021
Incorporates	Additional information dated May 5, 2021
Incorporates	Additional information dated June 23, 2021
Incorporates	Additional information dated June 24, 2021
Incorporates	Additional information dated August 4, 2021
Incorporates	Additional information dated August 18, 2021

ACRONYMS

The following lists commonly used acronyms and associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by Environmental Protection Agency to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CMS	Continuous monitoring system
CO	Carbon monoxide
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent - Title 40 of the Code of Federal Regulations Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ/UDAQ	Division of Air Quality
DAQE	This is a document tracking code for internal Division of Air Quality use
EPA	Environmental Protection Agency
FDCP	Fugitive dust control plan
GHG	Greenhouse Gas(es) - Title 40 of the Code of Federal Regulations 52.21 (b)(49)(i)
GWP	Global Warming Potential - Title 40 of the Code of Federal Regulations Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/YR	Pounds per year
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO_x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM_{10}	Particulate matter less than 10 microns in size
$PM_{2.5}$	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO_2	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
TPY	Tons per year
UAC	Utah Administrative Code
VOC	Volatile organic compounds